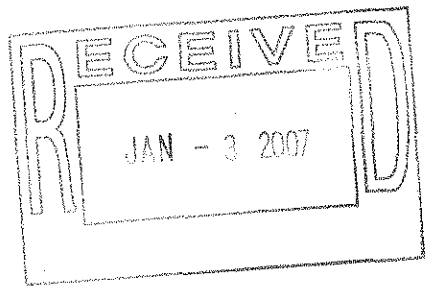
GIANT
YORKTOWN REFINERY

2201 GOODWIN NECK ROAD
GRAFTON
VIRGINIA
23692



December 29, 2006

Certified Mail

Director Air Enforcement
Office of Regulatory Enforcement
U.S. Environmental Protection Agency
Mail Code 2242-A, Ariel Rios Building
1200 Pennsylvania Avenue, NW
Washington, D.C. 20460-0001

Re: Northern District of Indiana, Hammond Division
Civil action No. 2:96 CV 095 RL
Giant Yorktown Refinery
Paragraph 15: Annual Heater and Boiler Update
and Schedule for Installation of NOx Controls

For Information Only – No EPA Action Required

Dear Madam or Sir:

Attached please find the **2006 Annual Heater and Boiler Update** for the Giant Yorktown Refinery. Paragraph 15.H.iii of the above captioned Consent Decree (as amended) requires that Giant submit a report to EPA updating information on NOx controls for heaters and boilers.

The attached report also includes a schedule (as required by Paragraph 15.D.ii) for installation of controls on the heaters and boilers to be controlled under Paragraph 15.D.i.

Should you have any questions regarding this information, please contact Peter G. Buckman at (757) 898-9673.

Sincerely,

Peter Buckman for

David C. Pavlich
Manager, HSE

Attachment

cc:

Director, Air Enforcement Division — via Certified Mail
U.S. Environmental Protection Agency
c/o MATRIX Environmental & Geotechnical Services
120 Eagle Rock Ave. (2nd Floor)
East Hanover, NJ 07936

Ms. Jane A. Workman — via Certified Mail
Tidewater Regional Office
Department of Environmental Quality
5636 Southern Boulevard
Virginia Beach, Virginia 23462

David Kirby — via USPS
Giant Industries, Inc.
23733 N. Scottsdale Rd.
Scottsdale, AZ 85255

Bruce Augustine — via Certified Mail
USEPA, Region 3
Air Protection Division (3APOO)
1650 Arch Street
Philadelphia, PA 19103

Giant Yorktown Refinery
Annual Heater and Boiler Update Report 2006 (15.H.iii) and Schedule of Installation of Controls (15.D.ii)

Listing of Heaters and Boilers >40 mmbtu/hr Firing Capacity
The following information is provided according to Paragraphs 15 .D.ii and 15.H.iii of the consent decree.

		For each he/bo controls already installed as per 15.E				For each he/bo expected to have controls installed in 2007 as per 15.E				Additional he/bo expected to be controlled	Demonstration that control of he/bo in (a)-(c) meet requirements of 15.D		Annual emissions of remaining he/bo not anticipated to be controlled		
		(a)	(a)	(a)	(a)	(b)	(b)	(b)	(b)	(c)	(d)	(d)	(e)	(e)	(e)
Source	Unit	NOx Controls Installed?	Control Technology Installed	NOx Emission Rate	Basis for Estimate	NOx Controls Expected to Be Installed in 2007?	Control Technology Installed	NOx Emission Rate	Basis for Estimate	NOx Controls Expected to Be Installed in Future?	Source Maximum Firing Rate	Sources to Be Controlled (see notes 3 and 5)	Estimated Actual NOx Emission Rate	Basis for Estimate	Estimated Annual NOx Emissions (see note 4)
		(Y/N)	(see note 1)	(lb/mmbtu)	(see note 2)	(Y/N)	(see note 1)	(lb/mmbtu)	(see note 2)	(Y/N)	(mmbtu/hr)	(mmbtu/hr)	(lb/mmbtu)	(see note 2)	(tons)
B-101 (Crude Furnace)	CRUDE	N				N				N	311		0.10	EF	95
BOILERS 1	UTIL	N				Y				Y	137.5	137.5			
BOILERS 2	UTIL	N				N				Y	137.5	137.5			
BA-101 (DCU)	COKER	N				N				N	97		0.10	EF	34
F-302 (Ultra)	ULTRA	N				Y				Y	79	79			
B-102 (Vacuum Furnace)	CRUDE	N				N				N	79		0.10	EF	24
F-303 (Ultra)	ULTRA	N				N				N	50		0.10	EF	20
F-101 (DDU)	ULTRA	N				N				N	44		0.10	EF	14
										Sum (mmbtu/hr):	935	354		Sum (tons):	186
										Percent Controls (%):		37.9			
										Req'd Percent Cntrls (%):		33.3			

Notes:
(1) ULNB = current generation ultra low NOx burners
NGB = next generation ultra low NOx burners
SCR = selective catalytic reduction
Other = other control technology
SD = permanent shutdown

(2) CEM = continuous emission monitor
ST = stack test
EF = AP-42 emission factor

(3) Must be at least 33.3% of total capacity of units rated at >40 mmbtu/hr (see paragraph 15.D.i)

(4) Emissions estimation based on actual firing rates from 1999.

(5) As per CD Paragraph 15.D.ii: heater/boilers scheduled to be controlled utilizing ULNB.

(6) Boiler 2 scheduled for controls in 2008.